```
? show files;ds
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200527
        (c) 2005  Thomson Derwent
File 344:Chinese Patents Abs Aug 1985-2004/May
        (c) 2004 European Patent Office
File 347:JAPIO Nov 1976-2004/Dec(Updated 050405)
        (c) 2005 JPO & JAPIO
File 371:French Patents 1961-2002/BOPI 200209
        (c) 2002 INPI. All rts. reserv.
File   2:INSPEC 1969-2005/Apr W4
        (c) 2005 Institution of Electrical Engineers
File  35:Dissertation Abs Online 1861-2005/Mar
        (c) 2005 ProQuest Info&Learning
File  65:Inside Conferences 1993-2005/May W1
        (c) 2005 BLDSC all rts. reserv.
File  99:Wilson Appl. Sci & Tech Abs 1983-2005/Mar
        (c) 2005 The HW Wilson Co.
File 256:TecInfoSource 82-2005/Mar
        (c) 2005 Info.Sources Inc
File 474:New York Times Abs 1969-2005/Apr 30
        (c) 2005 The New York Times
File 475:Wall Street Journal Abs 1973-2005/Apr 29
        (c) 2005 The New York Times
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
        (c) 2002 The Gale Group

Set     Items   Description
S1     814030   MAIL OR PARCEL? ? OR PACKAGE? ? OR SHIPMENT? ? OR MAILING(-
             )PIECE? ? OR LETTERS OR PACKET? ? OR AIRMAIL? ? OR AIRPOST OR
             AIR()POST
S2    1871256   POSTBOX OR MAILBOX? OR BOXES OR CONTAINER? ? OR RECEPTACLE?
              ? OR HOLDER? ? OR BASKET? ? OR RESERVOIR? ? OR RECEIVER? ? OR
              TRAY? ?
S3     208985   (S1 OR S2)(15N)(SCAN? OR DETECT? OR SENSOR? OR SENSE? OR S-
             ENSING? OR TRACE? OR TRACING OR DETERMIN? OR DISCOVER? OR REC-
             OGNI? OR WARN? OR MONITOR?)
S4       2633   S3(15N)(LIFE()THREAT? OR BOMB? ? OR CHEMICAL? ? OR TOXIC? -
             OR TERRORIS? OR VIRAL OR VIRUS? OR BACTERIA? OR BIOLOGICAL OR
             BIOCHEMICAL OR POWDER?)
S5         57   S4 AND (WORKFLOW OR WORK()FLOW OR WMS OR ROUTING OR ROUTE?
             ?)
S6         29   S5 FROM 350,344,347,371
S7         28   S5 NOT S6
S8         24   S7 NOT PY>2001
S9         20   RD (unique items)
S10      2276   S4 NOT (EMAIL? OR (E OR ELECTRONIC)(1W)(MAIL? OR MESSAG?))
S11      2313   S4 NOT (E OR ELECTRIC OR DIGITAL)(2W)MAIL?
S12     54793   S1(15N)(SCAN? OR DETECT? OR SENSOR? OR SENSE? OR SENSING? -
             OR TRACE? OR TRACING OR DETERMIN? OR DISCOVER? OR RECOGNI? OR
             WARN? OR MONITOR?)
S13      1973   S12(15N)S2
S14         8   S13(15N)(BIO()TERRORI? OR BIOTERROR? OR BIOCHEMICAL OR BIO-
             ()CHEMICAL OR BOMB? ? OR LIFE()THREATEN? OR TERRORI?)
S15         8   RD (unique items)
S16        21   S13 AND HAZARD?
S17        20   S16 NOT S15
S18        19   RD (unique items)
S19       140   S13 AND (ROUTE OR ROUTING OR RE()ROUTING OR DETOUR? OR EXT-
             RACT? OR EXTRICAT? OR PULLING)
S20       115   S19 FROM 350,344,347,371
S21        25   S19 NOT S20
S22        16   S21 NOT PY>2001
S23        16   RD (unique items)
S24        58   S20 NOT PACKET? ?
S25        57   S24 NOT S14
?
```

? t15/3,k/all

**15/3,K/1 (Item 1 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


016455274 **Image available**
WPI Acc No: 2004-613192/200459
XRPX Acc No: N04-484586
**Mailbox for use in household, has door and back wall with louvers extending to allow air to enter and leave housing, and metal detecting assembly that detects metal positioned in housing**
Patent Assignee: SIMPSON S T (SIMP-I)
Inventor: SIMPSON S T
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 6772939 | B1 | 20040810 | US 2003337175 | A | 20030107 | 200459 | B |

Priority Applications (No Type Date): US 2003337175 A 20030107
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 6772939 | B1 | | 8 | B65D-091/00 | |

Abstract (Basic):
... The louvers allows improved air flow through the housing, the **detector** assembly **detects** **bombs** and the door assembly removes explosives, thereby providing **mail** carriers to readily identify if a dangerous item had been placed inside a **mailbox** . The likelihood of a mail carrier being victimized by **terrorism** and injured when opening a mailbox or infected with illness from contaminated mail is reduced...

**15/3,K/2 (Item 2 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


015608895 **Image available**
WPI Acc No: 2003-671052/200363
XRAM Acc No: C03-182941
XRPX Acc No: N03-535854
Biochemical **hazard** package detector , **for** detecting **the presence of e.g. hazardous materials, has airtight** container , **airtight** container **opening, clamper or damper devices, air circulator, air collector, and** biochemical **detector**
Patent Assignee: YOON S H (YOON-I)
Inventor: YOON S H
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 20030136203 | A1 | 20030724 | US 2001344635 | P | 20011026 | 200363 | B |
| | | | US 2002281680 | A | 20021028 | | |

Priority Applications (No Type Date): US 2001344635 P 20011026; US 2002281680 A 20021028
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 20030136203 | A1 | | 12 | G01N-001/38 | Provisional application US 2001344635 |

Biochemical **hazard** package detector , **for** detecting **the presence of e.g. hazardous materials, has airtight** container , **airtight** container **opening, clamper or damper devices, air circulator, air collector, and** biochemical **detector**

Abstract (Basic):
... A **biochemical** hazard **package** **detector** has an airtight **container** ; an airtight **container** opening attached to the **container**

; a clamper or damper devices in the container to hold a package upon receiving; an air circulator in the **container** to disturb interior of the **package** ; an air collector to take air particles out from the **package** ; and a **biochemical** **detector** connected to the air collector to analyze the air particles.

... A **biochemical** hazard **package** **detector** comprises an airtight **container** (109) having first and second ends; an airtight **container** opening attached to the first end of the container, where the opening timely opens to...

...of the package held by the damper by air; an air collector connected to the **container** to take air particles out from the **package** ; and a **biochemical** **detector** connected to the air collector to analyze the air particles...

**15/3,K/3 (Item 3 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


012688869 **Image available**
WPI Acc No: 1999-494978/199942
XRPX Acc No: N99-368706
Mailbox **for** detecting package **contents and letter** bombs
Patent Assignee: TUNGER H (TUNG-I)
Inventor: TUNGER H
Number of Countries: 001 Number of Patents: 002
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| DE 19752211 | A1 | 19990729 | DE 1052211 | A | 19971125 | 199942 | B |
| DE 19752211 | C2 | 20020418 | DE 1052211 | A | 19971125 | 200228 | |

Priority Applications (No Type Date): DE 1052211 A 19971125
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| DE 19752211 | A1 | | 5 | F42D-005/02 | |
| DE 19752211 | C2 | | | F42D-005/02 | |

Mailbox **for** detecting package **contents and letter** bombs

**15/3,K/4 (Item 1 from file: 347)**
DIALOG(R)File 347:JAPIO


07981982 **Image available**
INFORMATION TRANSMITTER/RECEIVER AND METHOD FOR TRANSMITTING AND RECEIVING INFORMATION

PUB. NO.: 2004-094741 [JP 2004094741 A]
PUBLISHED: March 25, 2004 (20040325)
INVENTOR(s): NISHIKAWA NAOTSUYO
APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD
APPL. NO.: 2002-257016 [JP 2002257016]
FILED: September 02, 2002 (20020902)

ABSTRACT

...finds out the hidden place by means of a mouse or a keyboard and the **receiver** **detects** a **bomb** prior to the electronic **mail** , the **bomb** explodes on the screen to transmit the electronic mail informing the explosion of the bomb...

**15/3,K/5 (Item 1 from file: 2)**
DIALOG(R)File 2:INSPEC

6165895 INSPEC Abstract Number: B1999-03-6210L-134, C1999-03-5620W-040
**Title: Data packet intercepting on the Internet: how and why? A closer look at existing data packet intercepting tools**
Author(s): Venter, H.S.; Eloff, J.H.P.
Author Affiliation: Dept. of Comput. Sci., Rand Afrikaans Univ., Johannesburg, South Africa
Journal: Computers & Security vol.17, no.8 p.683-92
Publisher: Elsevier,
Publication Date: 1998 Country of Publication: UK
CODEN: CPSEDU ISSN: 0167-4048
SICI: 0167-4048(1998)17:8L.683:DPII;1-A
Material Identity Number: M680-1998-009
U.S. Copyright Clearance Center Code: 0167-4048/98/$19.00
Language: English
Subfile: B C


...Abstract: example, intercept a data packet or datagram to execute harmful effects on it, mostly to **terrorize** the sender and/or the **receiver** of such **packet** or datagram. Some applications, on the other hand, might want to **monitor** a **packet** or datagram for security reasons. Still other applications might merely want to intercept a data...

**15/3,K/6 (Item 1 from file: 474)**
DIALOG(R)File 474:New York Times Abs


08002828 NYT Sequence Number: 797545020910
**CAN THESE BOXES BE LOCKED AGAINST TERROR?**
New York Times, Col. 1, Pg. 1, Sec. F
Tuesday September 10 2002

DESCRIPTORS: Postal Service; Biological and Chemical Warfare; **Terrorism** ; Security and **Warning** Systems; **Mail Boxes** ; Stamps (Postal); Postal Service

**15/3,K/7 (Item 2 from file: 474)**
DIALOG(R)File 474:New York Times Abs


07986843 NYT Sequence Number: 486914020616
**LETTERS**
Homard, Caroline; Homard, Caroline
New York Times, Col. 4, Pg. 8, Sec. 6
Sunday June 16 2002

ABSTRACT:
Letter from Caroline Homard suggests rigging all **containers** entering United States with indestructible plexiglass windows as way to **discover** suspicious **shipments** (May 26 article by Bill Keller on nuclear **terrorism** )

**15/3,K/8 (Item 3 from file: 474)**
DIALOG(R)File 474:New York Times Abs


07443680 NYT Sequence Number: 686166960805
**PATENTS**
Riordan, Teresa
New York Times, Col. 4, Pg. 2, Sec. D
Monday August 5 1996

DESCRIPTORS: Inventions and Patents; **Bombs** and **Bomb** Plots; Airlines and Airplanes; Postal Service; **Mail Boxes** ; X-Rays; Security and **Warning** Systems

?

? t18/3,k/all

**18/3,K/1 (Item 1 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


016753754 **Image available**
WPI Acc No: 2005-078032/200509
XRPX Acc No: N05-068432
**Mailbox for receiving mail, has curved transparent panel that is attached to curved upper portion of main body and extends down each side of main body to a location adjacent base panel**
Patent Assignee: SOUTH P J (SOUT-I)
Inventor: SOUTH P J
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 6845904 | B1 | 20050125 | US 2002180656 | A | 20020626 | 200509 | B |

Priority Applications (No Type Date): US 2002180656 A 20020626
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 6845904 | B1 | | 17 | B65D-091/00 | |

Abstract (Basic):
... Allows owner to **determine** presence of **mail** in **mailbox** with a glance. Enables **mail** carrier to see that no explosive device or **hazardous** material has been positioned in **mailbox** prior to opening front door of mailbox...

**18/3,K/2 (Item 2 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


016721828 **Image available**
WPI Acc No: 2005-046103/200505
XRPX Acc No: N05-040201
**Cargo container monitoring system for use in commercial aircraft, has central monitoring system including transceiver to receive data from sensor module and local master processor for processing and analyzing data**
Patent Assignee: CANICH D J (CANI-I); CROUCH D D (CROU-I); GALLIVAN J R (GALL-I); KARLSON R E (KARL-I); KATO K G (KATO-I); SAR D R (SARD-I); STARBUCK P D (STAR-I)
Inventor: CANICH D J; CROUCH D D; GALLIVAN J R; KARLSON R E; KATO K G; SAR D R; STARBUCK P D
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 20040233055 | A1 | 20041125 | US 2003440944 | A | 20030519 | 200505 | B |

Priority Applications (No Type Date): US 2003440944 A 20030519
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 20040233055 | A1 | | 12 | G08B-001/08 | |

Abstract (Basic):
... The central monitoring system efficiently detects and reconfirms a presence of a **hazardous** material in the cargo **container** . The system allows usage of small inexpensive **sensors** for various threats of interest, thus allowing a suite of the **sensors** to be **packaged** in a compact enclosure...

**18/3,K/3 (Item 3 from file: 350)**
DIALOG(R)File 350:Derwent WPIX

016216525 **Image available**
WPI Acc No: 2004-374413/200435
XRPX Acc No: N04-297878
**Mail collection point-of-use for mail delivery system, has indicators positioned inside enclosure and coupled to detector for generating indication upon receipt of detection signal**
Patent Assignee: US POSTAL SERVICE (USPO-N); DARTY H (DART-I)
Inventor: DARTY H
Number of Countries: 105 Number of Patents: 003
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---|---|---|---|---|---|---|
| US 20040080414 | A1 | 20040429 | US 2002420980 | P | 20021024 | 200435 B |
| | | | US 2003632466 | A | 20030801 | |
| WO 200463023 | A2 | 20040729 | WO 2003US24022 | A | 20030801 | 200451 |
| AU 2003303087 | A1 | 20040810 | AU 2003303087 | A | 20030801 | 200479 |

Priority Applications (No Type Date): US 2002420980 P 20021024; US 2003632466 A 20030801
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 20040080414 | A1 | | 18 | G08B-021/00 | Provisional application US 2002420980 |
| WO 200463023 | A2 | E | | B65D-000/00 | |

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW
Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

| | | | | | |
|---|---|---|---|---|---|
| AU 2003303087 | A1 | | | G08B-021/00 | Based on patent WO 200463023 |

Abstract (Basic):
... The mail collection point-of-use has a mail **receptacle** positioned inside an enclosure (40) accumulating a received customer-deposited **mail** . A **detector** (70) positioned inside the enclosure generates a **detection** signal upon **detection** of an airborne **hazardous** material. Indicators (81, 82) positioned inside the enclosure are coupled to the detector for generating...
... An INDEPENDENT CLAIM is also included for a method of preventing detected **hazardous** materials within a mail collection point-of-use from contaminating components of subsequent mail delivery...

...The indicator coupled to **detector** indicates the **detection** of **hazardous** materials within the **mail** collection point-of-use before removing the **mail** **receptacle** and its contaminated mail, thereby preventing the spread of **hazardous** materials in a mail delivery system...

**18/3,K/4 (Item 4 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


016066919 **Image available**
WPI Acc No: 2004-224770/200421
Related WPI Acc No: 2003-523805; 2003-569563; 2003-577542; 2003-767940; 2004-327095
XRAM Acc No: C04-088794
XRPX Acc No: N04-177552
**Neutralizing system for** hazardous **materials in** mail , **has** container **with enclosed chamber,** hazardous **materials** detection **system, mechanism to fill chamber with neutralizing agent, and mechanism to purge**

**neutralizing agent from chamber**
Patent Assignee: LOCKHEED MARTIN CORP (LOCK )
Inventor: MEGERLE C A
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---|---|---|---|---|---|---|
| US 20040024278 | A1 | 20040205 | US 2001330673 | P | 20011026 | 200421 B |
| | | | US 2001344848 | P | 20011231 | |
| | | | US 2002201169 | A | 20020722 | |
| | | | US 2002277069 | A | 20021021 | |
| | | | US 2002289810 | A | 20021107 | |

Priority Applications (No Type Date): US 2002289810 A 20021107; US 2001330673 P 20011026; US 2001344848 P 20011231; US 2002201169 A 20020722 ; US 2002277069 A 20021021
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 20040024278 | A1 | | 13 | A62D-003/00 | Provisional application US 2001330673 |
| | | | | | Provisional application US 2001344848 |
| | | | | | CIP of application US 2002201169 |
| | | | | | CIP of application US 2002277069 |

**Neutralizing system for** hazardous **materials in** mail , **has** container **with enclosed chamber**, hazardous **materials** detection **system**, **mechanism to fill chamber with neutralizing agent, and mechanism to purge neutralizing agent from...**

Abstract (Basic):
... mechanism for providing an air stream in the chamber, air input and output ports, a **hazardous** materials detection system, a mechanism for filling the chamber with a neutralizing agent that neutralizes targeted **hazardous** materials, and a mechanism for purging the neutralizing agent from the chamber.
... An INDEPENDENT CLAIM is also included for a method for detecting and neutralizing **hazardous** materials in mail...

...The system is used for neutralizing **hazardous** materials (e.g. biological pathogens including bacteria, bacterial spores including anthrax spores, viruses, rickettsia, toxins...

...associated with illicit drugs and other biological particles and materials, radioactive particles, chemical vapors, or **hazardous** industrial materials) in **mail** (Claimed). It is used for **detecting hazardous** materials inside **containers** and cargo carriers including semi-trailers, trucks, rail cars, or intermodal shipping/cargo containers...

...The invention quickly and efficiently detects and neutralizes **hazardous** materials inside containers used to ship materials, while the shipped materials are contained and prior to the unloading of the container and possible dissemination/distribution of any **hazardous** materials...
...Title Terms: **HAZARD** ;

**18/3,K/5 (Item 5 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


015832955 **Image available**
WPI Acc No: 2003-895159/200382
XRPX Acc No: N03-714206
**Secure shipment container for cargo e.g. jewels,** hazardous **materials, has electronics package with fiber optic alarm system and GPS to provide continuous indication of cargo status and location**
Patent Assignee: ZIRO LIMIT COMPOSITE INC (ZIRO-N)
Inventor: ANHEIER N C; GORDON N R; PARK W R; SIMMONS K L; SLIVA P; STAHL K

A
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 6556138 | B1 | 20030429 | US 98225843 | A | 19981231 | 200382 | B |

Priority Applications (No Type Date): US 98225843 A 19981231
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 6556138 | B1 | | 9 | G08B-013/14 | |

**Secure shipment container for cargo e.g. jewels, hazardous materials, has electronics package with fiber optic alarm system and GPS to provide continuous indication...**

Abstract (Basic):
... For secure shipment of cargo such as jewels, cash, high-valued items, weapons, vehicles, **hazardous** materials, medical or biological-related material liquid or gaseous materials...

...Provides real-time location, access and condition information about the cargo and the **containers** of critical **shipments** , simultaneously. Hence, enables continuous **monitoring** of the transport and storage of cargo...
...Title Terms: **HAZARD** ;

**18/3,K/6 (Item 6 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


015800750 **Image available**
WPI Acc No: 2003-862953/200380
XRPX Acc No: N03-688731
Packet detector **for spread area locations of** hazardous **atmospheres multiple access** receiver , **has synchronization matched filters connected in parallel to low pass filters through despreading filters**
Patent Assignee: ALOHA NETWORKS INC (ALOH-N)
Inventor: ABRAMSON N; COPELAND E
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 6625204 | B1 | 20030923 | US 9882863 | P | 19980424 | 200380 | B |
| | | | US 99296589 | A | 19990423 | | |

Priority Applications (No Type Date): US 9882863 P 19980424; US 99296589 A 19990423
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 6625204 | B1 | | 11 | H04B-001/69 | Provisional application US 9882863 |

Packet detector **for spread area locations of** hazardous **atmospheres multiple access** receiver , **has synchronization matched filters connected in parallel to low pass filters through despreading filters**

Abstract (Basic):
... An INDEPENDENT CLAIM is also included for **receiver packet detection** method...

...For **detecting** single spreading sequence spread bit **packets** in spread area locations of **hazardous** atmospheres (ALOHA) multiple access (SAMA) **receiver** .

...Title Terms: **HAZARD** ;

**18/3,K/7 (Item 7 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


015705747 **Image available**
WPI Acc No: 2003-767940/200372
Related WPI Acc No: 2003-523805; 2003-569563; 2003-577542; 2004-224770; 2004-327095
XRAM Acc No: C03-211104
XRPX Acc No: N03-615122
**System for** detecting hazardous **materials in, e.g.** mail , **has enclosed chamber in** container **sealed with respect to ambient atmosphere for containing** mail , **air plenum, air input and output ports, and** hazardous **materials** detection **system**
Patent Assignee: LOCKHEED MARTIN CORP (LOCK )
Inventor: MEGERLE C A
Number of Countries: 101 Number of Patents: 004
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| WO 200381214 | A2 | 20031002 | WO 2002US34375 | A | 20021025 | 200372 | B |
| US 20040020267 | A1 | 20040205 | US 2001330673 | P | 20011026 | 200411 | |
| | | | US 2002277069 | A | 20021021 | | |
| AU 2002367475 | A1 | 20031008 | AU 2002367475 | A | 20021025 | 200432 | |
| US 6823714 | B2 | 20041130 | US 2001330673 | P | 20011026 | 200479 | |
| | | | US 2002277069 | A | 20021021 | | |

Priority Applications (No Type Date): US 2002277069 A 20021021; US 2001330673 P 20011026
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 200381214 | A2 | E | 23 | G01N-001/24 | |
| Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW | | | | | |
| Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW | | | | | |
| US 20040020267 | A1 | | | G01N-033/00 | Provisional application US 2001330673 |
| AU 2002367475 | A1 | | | G01N-001/24 | Based on patent WO 200381214 |
| US 6823714 | B2 | | | G01N-007/00 | Provisional application US 2001330673 |

**System for** detecting hazardous **materials in, e.g.** mail , **has enclosed chamber in** container **sealed with respect to ambient** atmosphere **for containing** mail , **air plenum, air input and output ports, and** hazardous **materials** detection **system**

Abstract (Basic):
... System for **detecting hazardous** materials in, e.g. **mail** , comprises an enclosed chamber in a **container** which is sealed with respect to the ambient atmosphere for containing mail, an air plenum...

...for providing an air flow within the chamber, air input and output ports, and a **hazardous** materials detection system for detecting the presence of at least one **hazardous** materials in the air flow.
... System for **detecting hazardous** materials in, e.g. **mail** , comprises an enclosed chamber in a **container** which is sealed with respect to the ambient atmosphere for containing mail, an air plenum...

...within the container and for directing the flow of air from the container, and a **hazardous** materials detection system (38) for detecting the presence of at least one **hazardous** materials in the air flow. An INDEPENDENT CLAIM is also included for a method for **detecting hazardous** materials in **mail** , which comprises providing an airtight **container** for holding **mail** and having at least one air inlet and at

least one air outlet; moving air through the **container** and through the **mail** contained in it between the air inlet and outlet; providing at least one **hazardous** material **sensor** ; and directing air leaving the **container** to the sensor...

...The system is used for **detecting** **hazardous** materials in **mail** (claimed). It is used for **detecting** **hazardous** materials inside shipping **containers** , e.g. semi-trailers cargo **boxes** , shipping **containers** , and rail cars, in which mail, merchandise, and goods are shipped...

...The inventive system quickly and efficiently detects **hazardous** materials inside containers used to ship materials...

...an end view of an exemplary container and an associated air flow moving system and **hazardous** -materials sensing system...

... **Hazardous** materials detection system (38
Technology Focus:
... detection system are sealed so that air may not escape into the ambient atmosphere. The **hazardous** materials detection system includes sensors for sensing at least one biological pathogens including bacteria, bacterial...

...radioactive particles, chemical vapors including chemical warfare agents, explosives and explosives-related compounds, illicit drugs, **hazardous** industrial materials, other chemical vapors and materials, and other **hazardous** materials. The system further comprises mechanism for agitating the mail to loosen particles and vapors...
...Title Terms: **HAZARD** ;

**18/3,K/8 (Item 8 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


015686226 **Image available**
WPI Acc No: 2003-748415/200370
XRAM Acc No: C03-205265
XRPX Acc No: N03-599861
Mail **collection** receptacle hazardous **material** detection **system** **for** mail **collection** receptacle , **has air circulation mechanism and air sampling mechanism**
Patent Assignee: LOCKHEED MARTIN CORP (LOCK ); LOCKHEED MARTIN FEDERAL SYSTEMS INC (LOCK )
Inventor: BECKERT J T; HUTCHINSON D M; RICE D G; TERRY W S
Number of Countries: 101 Number of Patents: 003
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---|---|---|---|---|---|---|
| WO 200376904 | A2 | 20030918 | WO 2002US34731 | A | 20021029 | 200370 B |
| US 20040026491 | A1 | 20040212 | US 2001350977 | P | 20011029 | 200412 |
| | | | US 2002282868 | A | 20021029 | |
| AU 2002367537 | A1 | 20030922 | AU 2002367537 | A | 20021029 | 200431 |

Priority Applications (No Type Date): US 2001350977 P 20011029; US 2002282868 A 20021029
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 200376904 | A2 | E | 34 | G01N-001/00 | |

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW
Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

US 20040026491 A1 B65D-091/00 Provisional application US 2001350977

AU 2002367537 A1 G01N-001/00 Based on patent WO 200376904

Mail **collection** receptacle hazardous **material** detection **system for** mail **collection** receptacle , **has air circulation mechanism and air sampling mechanism**

Abstract (Basic):

... A **mail** collection **receptacle hazardous** material **detection** system for a **mail** collection **receptacle** having a chamber, comprises an air circulation mechanism for creating an air-stream in the...

...the receptacle; and an air sampling mechanism for analyzing air within the chamber for a **hazardous** agent capable of attachment to the receptacle wall in fluid communication with the chamber.

... A **mail** collection **receptacle hazardous** material **detection** system for a **mail** collection **receptacle** having a chamber, comprises an air circulation mechanism for creating an air-stream in the...

...collection receptacle; and an air sampling mechanism for analyzing air within the chamber for a **hazardous** agent being capable of attachment to the wall of the mail collection receptacle in fluid...

...agitates particulates within the mail collection receptacle and conveys the particulates for analysis of the **hazardous** agent...

...1) **detecting hazardous** materials within the chamber of the **mail** collection **receptacle** , comprising **sensing** the air in the chamber; indicating when the presence of **hazardous** material within the air of the **mail** collection **receptacle** is **sensed** ; and ceasing the step of **sensing** after the indication of the presence of **hazardous** material within the air of the **mail** collection **receptacle** ; and...

...2) a **mail** collection enclosure for **hazardous** material **detection** , comprising a **mail container** having an interior and a cutout in its side to view the contents of **container** from the outside; a transparent window larger than the cutout attached to the container and forming an airtight seal around the cutout; and a particulate sensor for detecting **hazardous** agents and attached to the interior of the container adjacent to the transparent window...

...The system and apparatus are used for a mail collection receptacle especially for **hazardous** materials including explosives and infectious or **hazardous** biological agents (claimed), as well as for the conventional collection of mail or other objects...

...The inventive system is capable of being used in the early detection of the **hazardous** material. It is capable of operating with bulk mails or other objects where the inventive...

Technology Focus:

... outlet attached to the receptacle. It comprises a particulate sensor being capable of sensing the **hazardous** agents from bio-warfare agents, chemical agents or explosive agents; the power source connection; the...

...capable of providing an indication whenever the air-stream contains one or more of the **hazardous** agents. The air sampling mechanism is constructed and monitored through the transparent window attached to the receptacle. The particular sensor comprises a reactive test strip. The **container** comprises a bag or a box. The **detection** system may comprise an incoming **mail** chamber to receive **mail** or other objects for **hazardous** material analysis; a test chamber being in alignment with the incoming mail chamber such that...

...test chamber for sensing samples of air in the test chamber for the presence of **hazardous** material and for providing an indication when the **hazardous** material is present. The **mail** or other objects are screened for **hazardous** material to make a **determination** of their free-of- **hazardous** -material condition prior to removal from the **receptacle** to another facility. The **detection** system is constructed and arranged for being used in conjunction with a vehicle. The incoming **mail** chamber comprises door(s) capable of forming an airtight seal within the test chamber for...

...Preferred Method: The **detection** method may comprise depositing **mail** articles within the **mail** collection **receptacle** ; agitating the **receptacle** ; **sensing** for the presence of the **hazardous** agents; and indicating the presence of the **hazardous** agents in the **receptacle** when the agents are **sensed** . The agitating step includes picking up and shaking the **receptacle** , and depositing the **mail** articles within the **receptacle** . The indicating step includes changing in color of the test strip, sounding of an audio...
...Title Terms: **HAZARD** ;

**18/3,K/9 (Item 9 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

015681931 **Image available**
WPI Acc No: 2003-744120/200370
Related WPI Acc No: 2003-659743; 2003-659974
XRAM Acc No: C03-204405
XRPX Acc No: N03-595923
Detection **system, useful for** determining **chemical or biological** hazards , **e.g. anthrax, in incoming** mail , **comprises incoming** mail receptacles **provided with** hazard detector , **communication device and source** detection **device, and server**
Patent Assignee: PITNEY BOWES INC (PITB )
Inventor: CORDERY R A; RUSSO K A; SANSONE R P
Number of Countries: 031 Number of Patents: 003
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 20030113922 | A1 | 20030619 | US 2001683380 | A | 20011219 | 200370 | B |
| EP 1466293 | A1 | 20041013 | EP 2002795915 | A | 20021217 | 200467 | |
| | | | WO 2002US40432 | A | 20021217 | | |
| US 6867044 | B2 | 20050315 | US 2001683380 | A | 20011219 | 200520 | |

Priority Applications (No Type Date): US 2001683380 A 20011219; US 2001683379 A 20011219; US 2001683381 A 20011219
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 20030113922 | A1 | | 17 | G01N-033/00 | |
| EP 1466293 | A1 | E | | G06K-009/00 | Based on patent WO 200354778 |
| | | | | | Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR |
| US 6867044 | B2 | | | G01N-033/22 | |

Detection **system, useful for** determining **chemical or biological** hazards , **e.g. anthrax, in incoming** mail , **comprises incoming** mail receptacles **provided with** hazard detector , **communication device and source** detection **device, and server**

Abstract (Basic):
... A **hazard** detection system, comprises...

...1) incoming **mail** **receptacles** , each comprising a **hazard** **detector** , a communication device (220) and a source **detection** device for providing suspect source information when **hazard** is detected; and...

... An INDEPENDENT CLAIM is also included for a method of coordinated **hazard** detection in a mail system, including...

...3) testing the mail piece for **hazards** ;
(...

...4) alerting a central server upon detection of **hazard** ; and...

...The system is used for detecting chemical or biological **hazards** , e.g. anthrax, in incoming mail
Technology Focus:
... Preferred Components: The **detection** system also includes a secure network connection between each incoming **mail** **receptacle** and the server, and an image **scanner** (211) for **scanning** the face of a **mail** piece...
...Title Terms: **HAZARD** ;

**18/3,K/10 (Item 10 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


015608075 **Image available**
WPI Acc No: 2003-670232/200363
XRAM Acc No: C03-182709
XRPX Acc No: N03-535109
**Inspection enclosure for receiving and processing mail has glove port(s) traversing side member(s), and glove having sleeve portion attached to glove port**
Patent Assignee: LANE C A (LANE-I); O'NEAL D F (ONEA-I)
Inventor: LANE C A; O'NEAL D F
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 20030103881 | A1 | 20030605 | US 2001341166 | P | 20011030 | 200363 | B |
| | | | US 2002283749 | A | 20021030 | | |

Priority Applications (No Type Date): US 2001341166 P 20011030; US 2002283749 A 20021030
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 20030103881 | A1 | | 12 | A61L-002/22 | Provisional application US 2001341166 |

Abstract (Basic):
... open, inspect, and photocopy a piece of mail without coming in direct contact with the **mail** . It serves as a transport **container** in the event **hazardous** materials are **discovered** in the **mail** . In the event **hazardous** materials are **discovered** , these materials may be preserved allowing investigators to study the materials so as to further...

**18/3,K/11 (Item 11 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


015597819 **Image available**
WPI Acc No: 2003-659974/200362
Related WPI Acc No: 2003-659743; 2003-744120
XRAM Acc No: C05-077557
XRPX Acc No: N05-199967
**Incoming mail receptacles system for anthrax** detection , **has mailboxes with** scanner **to** scan **face of quarantine** mail detected **by hazard** detector , **and server notifying receiver and sender for** detected mail
Patent Assignee: PITNEY BOWES INC (PITB )
Inventor: CORDERY R A; RUSSO K A; SANSONE R P
Number of Countries: 098 Number of Patents: 004

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 20030115161 | A1 | 20030619 | US 2001683381 | A | 20011219 | 200362 | B |
| WO 200354778 | A1 | 20030703 | WO 2002US40432 | A | 20021217 | 200362 | |
| AU 2002360642 | A1 | 20030709 | AU 2002360642 | A | 20021217 | 200428 | |
| EP 1466293 | A1 | 20041013 | EP 2002795915 | A | 20021217 | 200467 | |
| | | | WO 2002US40432 | A | 20021217 | | |

Priority Applications (No Type Date): US 2001683381 A 20011219; US 2001683379 A 20011219; US 2001683380 A 20011219

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 20030115161 | A1 | | 17 | G06F-017/60 | |
| WO 200354778 | A1 | E | | G06K-009/00 | |

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM ZW

| | | | | |
|---|---|---|---|---|
| AU 2002360642 | A1 | | G06K-009/00 | Based on patent WO 200354778 |
| EP 1466293 | A1 | E | G06K-009/00 | Based on patent WO 200354778 |

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

**Incoming mail receptacles system for anthrax** detection , **has mailboxes with** scanner **to** scan **face of quarantine** mail detected **by hazard** detector , **and server notifying receiver and sender for** detected mail

Abstract (Basic):

... The system has a set of **mail boxes** (200) having a **hazard detectors** (210) and an image **scanner** (211) for triggering a quarantine **mail** piece (100) and **scanning** face of the piece. The **boxes** also have communication systems (220) and a scan detection unit for providing source and recipient...

... The system is useful for detecting **hazards** e.g. anthrax in a mail pieces...

...the presence of any mail having biological contamination e.g. anthrax, thereby eliminating the potential **hazards** created to the mail recipient...

...The drawing shows a perspective cutaway view of an incoming **mail receptacle detection** system...

... **Hazard** detectors (210

...Title Terms: **HAZARD** ;

**18/3,K/12 (Item 12 from file: 350)**

DIALOG(R)File 350:Derwent WPIX



015597588 **Image available**

WPI Acc No: 2003-659743/200362

Related WPI Acc No: 2003-659974; 2003-744120

XRAM Acc No: C03-179839

XRPX Acc No: N03-526033

**Incoming** mail receptacle , **for** detecting hazards **in** mail **piece, includes segregated incoming** mail **air sampler**, hazard detector , **transport mechanism, and** hazard **indicator**

Patent Assignee: PITNEY BOWES INC (PITB )

Inventor: CORDERY R A; RUSSO K A; SANSONE R P

Number of Countries: 031 Number of Patents: 003

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 20030113230 | A1 | 20030619 | US 2001683379 | A | 20011219 | 200362 | B |
| US 6613571 | B2 | 20030902 | US 2001683379 | A | 20011219 | 200366 | |
| EP 1466293 | A1 | 20041013 | EP 2002795915 | A | 20021217 | 200467 | |
| | | | WO 2002US40432 | A | 20021217 | | |

Priority Applications (No Type Date): US 2001683379 A 20011219; US 2001683380 A 20011219; US 2001683381 A 20011219

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 20030113230 | A1 | | 14 | G01N-033/48 | |
| US 6613571 | B2 | | | G01N-001/00 | |
| EP 1466293 | A1 | E | | G06K-009/00 | Based on patent WO 200354778 |

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

**Incoming** mail receptacle , **for** detecting hazards **in** mail **piece, includes segregated incoming** mail **air sampler**, hazard detector , **transport mechanism, and** hazard **indicator**

Abstract (Basic):

... An incoming mail **receptacle** comprises a segregated incoming **mail** air sampler comprising an incoming **mail** opening (207) and a lockable door, a **hazard detector** to test the sample and provide a **hazard** indication, a transport mechanism to move the **mail** piece into a collection chamber if no **hazard** is **detected** , and a **hazard** indicator connected to detector for alerting the user of a **hazard** .

... The incoming **mail receptacle** is used for **detecting hazards** in a **mail** piece by testing an air sample for **hazards** , transporting the **mail** piece to the collection chamber if no **hazard** is **detected** , and providing a **hazard** indication if a **hazard** is detected (claimed...

...The novel system **detects** contaminated **mail** in an incoming **mail mailbox** .

Technology Focus:

... Preferred Component: A controller (213) is connected to the air sampler, **hazard** detector, transport mechanism, and **hazard** indicator for coordinating the sample collection, **hazard** detection and **hazard** indication. A vacuum system is connected to the controller having a vacuum source for collecting...

...the presence of mail pieces. A communication device (220) remotely alerts the user of a **hazard** . It includes a cellular link. A fluorometer **hazard** detector and DNA analysis **hazard** detector can also be included. The mail piece air sample includes a mail piece transport...

...Title Terms: **HAZARD** ;

**18/3,K/13 (Item 13 from file: 350)**

DIALOG(R)File 350:Derwent WPIX



015355160 **Image available**

WPI Acc No: 2003-416098/200339

Related WPI Acc No: 2003-662496

XRPX Acc No: N03-331607

**Document creation method for safe** mail **transmission, involves placing ordinary typing/paper provided with x-ray** detectable **markings, in hermetically sealed** container

Patent Assignee: PITNEY BOWES INC (PITB )

Inventor: HAAS B J

Number of Countries: 097 Number of Patents: 003

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 6532275 | B1 | 20030311 | US 2001683206 | A | 20011130 | 200339 | B |
| WO 200348751 | A1 | 20030612 | WO 2002US37518 | A | 20021122 | 200339 | |
| AU 2002343761 | A1 | 20030617 | AU 2002343761 | A | 20021122 | 200419 | |

Priority Applications (No Type Date): US 2001683206 A 20011130
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 6532275 | B1 | | 6 | H05G-001/28 | |
| WO 200348751 | A1 | E | | G01N-023/04 | |

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

| | | | | |
|---|---|---|---|---|
| AU 2002343761 | A1 | | G01N-023/04 | Based on patent WO 200348751 |

**Document creation method for safe** mail **transmission, involves placing ordinary typing/paper provided with x-ray** detectable **markings, in hermetically sealed** container

Abstract (Basic):
... Enables safe transmission of mails without fear of biological or chemical **hazardous** materials such as anthrax spores...

**18/3,K/14 (Item 14 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

014658925 **Image available**
WPI Acc No: 2002-479629/200251
XRAM Acc No: C02-136476
XRPX Acc No: N02-378773

**Sensor for detecting analytes has a base component defining a conductive element, a binding agent layer, a semiconductive element, and another conductive element connected to semiconductive element and the base component**

Patent Assignee: BIOSENSOR SYSTEMS DESIGN INC (BIOS-N); BAUER A J (BAUE-I)
Inventor: BAUER A J
Number of Countries: 098 Number of Patents: 005
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| WO 200231504 | A1 | 20020418 | WO 2001US29791 | A | 20010925 | 200251 | B |
| AU 200194656 | A | 20020422 | AU 200194656 | A | 20010925 | 200254 | |
| EP 1325330 | A1 | 20030709 | EP 2001975319 | A | 20010925 | 200345 | |
| | | | WO 2001US29791 | A | 20010925 | | |
| US 20040037746 | A1 | 20040226 | WO 2001US29791 | A | 20010925 | 200416 | |
| | | | US 2003380395 | A | 20030312 | | |
| JP 2004511779 | W | 20040415 | WO 2001US29791 | A | 20010925 | 200426 | |
| | | | JP 2002534838 | A | 20010925 | | |

Priority Applications (No Type Date): IL 138962 A 20001012
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 200231504 | A1 | E | 42 | G01N-033/543 | |

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

| | | | | |
|---|---|---|---|---|
| AU 200194656 | A | | G01N-033/543 | Based on patent WO 200231504 |
| EP 1325330 | A1 | E | G01N-033/543 | Based on patent WO 200231504 |

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR
US 20040037746 A1 G01N-027/00
JP 2004511779 W 63 G01N-027/416 Based on patent WO 200231504

Abstract (Basic):
... The **sensor** is useful for closed- **package** food **sensing**, **sensing** potentially **hazardous** samples such as blood in a closed **container** and for **detecting** analytes e.g. peptides, antibodies, enzymes, receptors, nucleic acid single strands and synthetic binding agents...

**18/3,K/15 (Item 15 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


013949118
WPI Acc No: 2001-433332/200147
XRAM Acc No: C01-131149
XRPX Acc No: N01-321115
**Production of liquid cigarettes without public** hazard
Patent Assignee: YU Z (YUZZ-I)
Inventor: SUN Z; YU Z; ZOU B; ZUO B
Number of Countries: 001 Number of Patents: 002
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| CN 1293928 | A | 20010509 | CN 99121451 | A | 19991022 | 200147 | B |
| CN 1094048 | C | 20021113 | CN 99121451 | A | 19991022 | 200526 | |

Priority Applications (No Type Date): CN 99121451 A 19991022
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| CN 1293928 | A | | | A24B-015/24 | |
| CN 1094048 | C | | | A24B-015/24 | |

**Production of liquid cigarettes without public** hazard
Abstract (Basic):
... A liquid cigarette without public **hazard** is prepared through choosing raw materials, crushing, baking, extracting liquid at 380-420 deg.C...

...with multifunctional extracting tank or reactor, cooling, collecting, homogenizing, fine filter, storage, automatically loading in **containers**, sealing and **package**. Its advantages include less harmful components, adding **trace** elements, no need of ignition, and no smoking.
...Title Terms: **HAZARD**

**18/3,K/16 (Item 1 from file: 344)**
DIALOG(R)File 344:Chinese Patents Abs


4263927
**TECHNOLOGY FOR PRODUCING LIQUID CIGARETTES WITHOUT PUBLIC HAZARD**
Patent Assignee: YU ZHIGANG (CN)
Author (Inventor): ZHIGANG YU (CN); ZUODONG SUN (CN); BAOAN ZUO (CN)
Patent Family:

| CC | Number | Kind | Date | |
|---|---|---|---|---|
| CN | 1293928 | A | 20010509 | (Basic) |

Application Data:

| CC | Number | Kind | Date |
|---|---|---|---|
| *CN | 99121451 | A | 19991022 |

**18/3,K/17 (Item 1 from file: 2)**
DIALOG(R)File 2:INSPEC


7204234 INSPEC Abstract Number: B2002-04-6150M-037, C2002-04-5640-031
**Title: A cumulative negative acknowledgment (CNAK) approach for scalable reliable multicast**
Author(s): Gee-Swee Poo
Author Affiliation: Sch. of Comput., Nat. Univ. of Singapore, Singapore
Conference Title: Proceedings Tenth International Conference on Computer Communications and Networks (Cat. No.01EX495) p.268-73
Editor(s): Li, J.; Luijten, R.; Park, E.K.
Publisher: IEEE, Piscataway, NJ, USA
Publication Date: 2001 Country of Publication: USA xx+608 pp.
ISBN: 0 7803 7128 3 Material Identity Number: XX-2001-02344
U.S. Copyright Clearance Center Code: 0-7803-7128-3/01/$10.00
Conference Title: Proceedings Tenth International Conference on Computer Communications and Networks
Conference Sponsor: Army Res. Lab.; IBM; Telcordia; Norkia; Avaya; IEEE Commun. Soc
Conference Date: 15-17 Oct. 2001 Conference Location: Scottsdale, AZ, USA
Language: English
Subfile: B C

...Abstract: negative acknowledgment (CNAK). In the scheme, we assume a window control of size W. A **receiver** does not send back a NAK immediately upon the **discovery** of a **packet** loss. Instead, the **receiver** accumulates the losses and returns a CNAK to the source at about half of the...

... overhead. Moreover, the use of multiple multicast channels for packet retransmission completely eliminates the exposure **hazard** . We apply the CNAK scheme to the DR local recovery model and show that the...

**18/3,K/18 (Item 2 from file: 2)**
DIALOG(R)File 2:INSPEC


4916442 INSPEC Abstract Number: B9505-2570-025
**Title: Minimizing ESD hazards in IC test handlers and automatic trim/form machines**
Author(s): Tan, W.H.
Author Affiliation: Adv. Micro Devices Inc., Sunnyvale, CA, USA
p.57-64
Publisher: EOS/ESD Assoc, Rome, NY, USA
Publication Date: 1993 Country of Publication: USA xii+291 pp.
Conference Title: Electrical Overstress/Electrostatic Discharge Symposium Proceedings
Conference Sponsor: IEEE; EOS/ESD
Conference Date: 28-30 Sept. 1993 Conference Location: Lake Buena Vista, FL, USA
Language: English
Subfile: B


**Title: Minimizing ESD hazards in IC test handlers and automatic trim/form machines**
Abstract: ESD **hazards** present in trim-and-form and test handling processes can result in heavy yield loss...
... plastics leaded chip carrier (PLCC) package leads are separated, thus exposing the products to ESD **hazards** . Test handling is the last step before products are packed in static-shielding **containers** for **shipment** . In each step, a different ESD source was **detected** and a different control method was used. In trim-and-form equipment, electrostatic charges were...

Identifiers: ESD **hazard** minimisation...

**18/3,K/19 (Item 3 from file: 2)**
DIALOG(R)File 2:INSPEC


4677730 INSPEC Abstract Number: B9407-7230-027
**Title: Design of a smart, survivable sensor system for enhancing the safe and secure transportation of** hazardous **or high-value cargo on railroads**
Author(s): Hogan, J.R.; Rey, D.; Faas, S.E.
Author Affiliation: Sandia Nat. Labs., Albuquerque, NM, USA
p.147-52
Editor(s): Hawthorne, K.L.; Hill, R.J.
Publisher: IEEE, New York, NY, USA
Publication Date: 1994 Country of Publication: USA vi+157 pp.
ISBN: 0 7803 1890 0
U.S. Copyright Clearance Center Code: 0 7803 1890 0/94/$4.00
Conference Title: Proceedings of IEEE/ASME Joint Railroad Conference
Conference Sponsor: ASME; IEEE
Conference Date: 22-24 March 1994 Conference Location: Chicago, IL, USA
Language: English
Subfile: B

**Title: Design of a smart, survivable sensor system for enhancing the safe and secure transportation of** hazardous **or high-value cargo on railroads**
...Abstract: Sandia National Laboratories for use in the safe and secure transportation of high value or **hazardous** materials is proposed for a railroad application. The Green Box would be capable of surviving...

... permitting them to respond in the most effective manner. The concept proposes a strap-on **sensor package** . the Green Box, that could be attached to any railroad car or cargo **container** . Its primary purpose is to minimize the number, severity and consequences of accidents and to...
...Identifiers: **hazardous** cargo
?

? t25/3,k/2,8,9,10,12,17,21,22,36,

25/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX


016637037 **Image available**
WPI Acc No: 2004-795750/200478
XRPX Acc No: N04-627159
**Item** tray **tracking method e.g. for** mail **in universal coding system, involves receiving load** container scan **which associates** container **unique identifier with enhanced label that is applied to** tray **containing items**
Patent Assignee: HAMILTON D (HAMI-I); US POSTAL SERVICE (USPO-N)
Inventor: HAMILTON D
Number of Countries: 108 Number of Patents: 002
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---|---|---|---|---|---|---|
| WO 200495225 | A2 | 20041104 | WO 2004US7705 | A | 20040402 | 200478 B |
| US 20040260665 | A1 | 20041223 | US 2003460449 | P | 20030404 | 200504 |
| | | | US 2004817574 | A | 20040402 | |

Priority Applications (No Type Date): US 2003460449 P 20030404; US 2004817574 A 20040402
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 200495225 | A2 | E | 30 | G06F-000/00 | |

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
Designated States (Regional): AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

| | | | |
|---|---|---|---|
| US 20040260665 | A1 | G06N-005/00 | Provisional application US 2003460449 |

**Item** tray **tracking method e.g. for** mail **in universal coding system, involves receiving load** container scan **which associates** container **unique identifier with enhanced label that is applied to** tray **containing items**

Abstract (Basic):
... An enhanced label (120c) comprising a **routing** code and a label unique identifier is generated and the enhanced label is applied to...

25/3,K/8 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX


016145961 **Image available**
WPI Acc No: 2004-303837/200428
XRPX Acc No: N04-241922
Mail detection **and re-direction method involves reading radio frequency identification tags attached to each** mail **piece in** tray , **and removing mails to be routed in different manners**
Patent Assignee: PITNEY BOWES INC (PITB )
Inventor: CORDERY R A; MORELLI M; PARKOS A; PINTSOV L A; REICHMAN R; SANSONE R P; ZELLER C
Number of Countries: 032 Number of Patents: 002
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---|---|---|---|---|---|---|
| US 20040049315 | A1 | 20040311 | US 2002238510 | A | 20020910 | 200428 B |
| EP 1398735 | A2 | 20040317 | EP 200320401 | A | 20030910 | 200428 |

Priority Applications (No Type Date): US 2002238510 A 20020910
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
US 20040049315 A1 7 G06F-007/00
EP 1398735 A2 E G07B-017/02
Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

Mail detection **and re-direction method involves reading radio frequency identification tags attached to each** mail **piece in** tray **, and removing mails to be routed in different manners**
...Title Terms: **ROUTE**

**25/3,K/9 (Item 9 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


016145960 **Image available**
WPI Acc No: 2004-303836/200428
XRPX Acc No: N04-241921
Mail detection **and redirection method in post office, involves removing mails having radio frequency identification tag from** tray **when mail to be routed in different direction than predetermined** route **indicated in tag**
Patent Assignee: PITNEY BOWES INC (PITB )
Inventor: SANSONE R P
Number of Countries: 001 Number of Patents: 002
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
US 20040049314 A1 20040311 US 2002238874 A 20020910 200428 B
US 6738689 B2 20040518 US 2002238874 A 20020910 200433

Priority Applications (No Type Date): US 2002238874 A 20020910
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
US 20040049314 A1 10 G06F-007/00
US 6738689 B2 G06F-007/00
Mail detection **and redirection method in post office, involves removing mails having radio frequency identification tag from** tray **when mail to be routed in different direction than predetermined** route **indicated in tag**

Abstract (Basic):
... to trays. The ID information of tag in each mail, are read for verification of **routing** of mail in tray. The mail which are to be routed in different direction than predetermined **route** indicated on tag, are removed from the tray.
...Title Terms: **ROUTE** ;

**25/3,K/10 (Item 10 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


016099085 **Image available**
WPI Acc No: 2004-256961/200424
XRPX Acc No: N04-204321
Mail **processing method for use in post office, involves** scanning **radio frequency identification tags which are placed in** mail **pieces,** trays **and palette at specified time during mail** routing
Patent Assignee: PITNEY BOWES INC (PITB )
Inventor: BODIE K W; MILLER K G; PINTSOV L A; WINKELMAN J H; WONG K C
Number of Countries: 001 Number of Patents: 002
Patent Family:
Patent No Kind Date Applicat No Kind Date Week

US 20040049316 A1 20040311 US 2002238864 A 20020910 200424 B
US 6801833 B2 20041005 US 2002238864 A 20020910 200465

Priority Applications (No Type Date): US 2002238864 A 20020910
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
US 20040049316 A1 10 G06F-007/00
US 6801833 B2 G06F-007/00

Mail **processing method for use in post office, involves** scanning **radio frequency identification tags which are placed in** mail **pieces,** trays **and palette at specified time during mail** routing

Abstract (Basic):
... on each mail piece. Another set of RFID tags is placed on each of the **trays** provided on a palette to identify the destination and the sender of the **mail** pieces. Another RFID tag is placed on the palette and the RFID tags are **scanned** at specified time during **mail routing** .
...Title Terms: **ROUTE**

**25/3,K/12 (Item 12 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

015811245 **Image available**
WPI Acc No: 2003-873449/200381
**Control mail system, control mail transmission apparatus and control mail receiving apparatus**
Patent Assignee: SANWA MATERIAL CO LTD (SANW-N)
Inventor: FUKAURA O
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
KR 2002032083 A 20020503 KR 200062973 A 20001025 200381 B

Priority Applications (No Type Date): KR 200062973 A 20001025
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
KR 2002032083 A 1 G06F-019/00

Abstract (Basic):
... signal to a target device by obtaining from the control data read by the control **mail** receiving tool. The control data comprises a **recognition** part described by a primary Domain Name System (DNS) server address of the **receiver** , a control part described by a control class code and a control code, and an...

...A receiver **extracts** control data from an e-mail simply and cheaply and the process time for executing...

**25/3,K/17 (Item 17 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

015176414 **Image available**
WPI Acc No: 2003-236944/200323
**Device for receiving registered post or parcel post**
Patent Assignee: LEE C S (LEEC-I)
Inventor: LEE C S
Number of Countries: 001 Number of Patents: 002
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
KR 2002088847 A 20021129 KR 200127830 A 20010521 200323 B

KR 394103 B 20030814 KR 200127830 A 20010521 200413

Priority Applications (No Type Date): KR 200127830 A 20010521
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
KR 2002088847 A 1 G06K-007/00
KR 394103 B G06K-007/00 Previous Publ. patent KR 2002088847

Abstract (Basic):
... A card input unit(104) **scans** a card possessed by a postman or a **mail receiver** and receives card information. If a card is judged as to a valid card in...
...bar code printed on a registered post or a postal parcel. A memory unit(107) **extracts** and stores display information including a user ID, the date and time, and a registered...

**25/3,K/21 (Item 21 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

014593448 **Image available**
WPI Acc No: 2002-414152/200244
XRPX Acc No: N02-325577
Mail routing **system** determines **whether** receiver **address, sender address or sender notification address is to be indicated based on which address is labelled as** routing **indicator**
Patent Assignee: LOPEZ S W (LOPE-I)
Inventor: LOPEZ S W
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
US 20020029202 A1 20020307 US 2000197699 P 20000418 200244 B
US 2000736055 A 20001213

Priority Applications (No Type Date): US 2000197699 P 20000418; US 2000736055 A 20001213
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
US 20020029202 A1 26 G06F-017/60 Provisional application US 2000197699

Mail routing **system** determines **whether** receiver **address, sender address or sender notification address is to be indicated based on which address is labelled as** routing **indicator**

Abstract (Basic):
... on the mail, based on which a labeller labels the mail with determined address as **routing** indicator and stacks in predetermined mail stacking position.
... An INDEPENDENT CLAIM is also included for mail **routing** method ...

...For **routing** mails such as letters, envelopes, weekly magazines, catalogs, circular, packages, etc...

...Since a **routing** indicator is provided to each mail, the mail transfer is performed efficiently and the cost...

...The figure shows the flowchart explaining the mail **routing** procedure ...
...Title Terms: **ROUTE** ;

**25/3,K/22 (Item 22 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

014592813 **Image available**
WPI Acc No: 2002-413517/200244
XRPX Acc No: N02-324982
**En route rage sensing apparatus for shipping goods, has direction indicator including corresponding capillaries extended into respective liquid reservoirs**
Patent Assignee: GU J L (GUJL-I)
Inventor: GU J L
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 6367408 | B1 | 20020409 | US 2000561201 | A | 20000427 | 200244 | B |

Priority Applications (No Type Date): US 2000561201 A 20000427
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 6367408 | B1 | | 9 | G08B-005/00 | |

**En route rage sensing apparatus for shipping goods, has direction indicator including corresponding capillaries extended into respective...**

Abstract (Basic):
... An INDEPENDENT CLAIM is included for method of operating en **route** rage sensing apparatus...

...En **route** rage **sensing** apparatus affixed on the exterior walls of **packages** such as crates, pallets, superstructures, corrugated pasteboard **container** and even plastic and metal **containers** containing goods, materials and manufactured articles, for detecting whether goods are transported in a recommended...

...The figure shows the en **route** sensing apparatus...
...Title Terms: **ROUTE** ;

**25/3,K/36 (Item 36 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

009713891 **Image available**
WPI Acc No: 1993-407444/199351
XRPX Acc No: N93-315373
**Mail processing system for local and non-local mail - sorts and conveys non-local mail to carrier in sufficient time to be placed on next vehicle without waiting for loading**
Patent Assignee: PITNEY BOWES INC (PITB )
Inventor: HUNT W M; OH J H; SANSONE R P
Number of Countries: 005 Number of Patents: 007
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| EP 575109 | A1 | 19931222 | EP 93304545 | A | 19930611 | 199351 | B |
| CA 2097959 | A | 19931219 | CA 2097959 | A | 19930608 | 199410 | |
| US 5446667 | A | 19950829 | US 92900397 | A | 19920618 | 199540 | |
| EP 575109 | B1 | 19970115 | EP 93304545 | A | 19930611 | 199708 | |
| DE 69307402 | E | 19970227 | DE 607402 | A | 19930611 | 199714 | |
| | | | EP 93304545 | A | 19930611 | | |
| CA 2097959 | C | 20010327 | CA 2097959 | A | 19930608 | 200122 | |
| EP 575109 | B2 | 20030102 | EP 93304545 | A | 19930611 | 200310 | |

Priority Applications (No Type Date): US 92900397 A 19920618
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| EP 575109 | A1 | E | 8 | B07C-003/00 | |
| Designated States (Regional): DE FR GB | | | | | |
| CA 2097959 | A | | | B07C-003/12 | |

US 5446667 A 7 G07B-017/00
EP 575109 B1 E 11 B07C-003/00
Designated States (Regional): DE FR GB
DE 69307402 E B07C-003/00 Based on patent EP 575109
CA 2097959 C E B07C-003/12
EP 575109 B2 E B07C-003/00
Designated States (Regional): DE FR GB

...Abstract (Equivalent): The system includes microprocessor device for assembling, arranging, and processing zip code, sorting, **routing** , and time table data, a device for **determining** the **routing** of the **mail** **trays** through a transportation system, a device for **determining** the times of departures of the transportation system, a device for **determining** if non local **mail** can be processed in time to meet the critical entry time of the postal distribution...

...in time to meet a departure sequence for the common carrier as determined by the **routing** of the mail...
?